Workshop 2
Non-functional requirements, Actor and goal modelling, Scenario modelling

Deadline for initial submission: 12.November, 9AM
Feedback on initial submission: 14.November
Final submission: 19.November, 9AM

Submit using course Website – Submit function
Workshop 2

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Penalty for late initial submission – no feedback
Penalty for the late final submission – 50% of the final grade

Submit using course Website – Submit function
Task 1: Non-functional requirements

• In your requirements specification for the developed software-intensive system, define:

• Non-functional requirements
  • Performance
  • Reliability
  • Security
  • Maintainability
  • Portability

• At least 1 of each type
  At least 10 requirements in total

• Requirements should be traced
  (e.g., to the functional requirements in order to explain quality (properties) of the software intensive system)
Actor and their goal modelling

Task 2: Create the actor/stakeholder dependency model
• Illustrate how actors depend one on another for achieving their goals

Task 3: Create another model where software intensive system is introduced
• Illustrate how software intensive system helps achieving actor goals

• Use – \( i^* \) modelling language
  • Strategic dependency model
  • (you do not need to define strategic rationale model)
Task 4: System goal modelling

• Narrow your scope - consider the prioritisation results:
  • Select the most important functional concerns (e.g., features, requirements, etc.).
  • Refine the selection to the goal model(s)

• Use – KAOS modelling language
  • Consider the following question
    • Why
    • How
    • How else
Scenario Modelling

• **Task 5**: Create a use case diagram
  • *(Task links to solution of Task 3)*
  • What should your software intensive system do (what functions/features should it have) to satisfy dependencies (identified in Task 3)?
  • Have you previously defined any functional requirements (e.g., features, groups of requirements) what satisfy the identified dependencies? Include these requirements in your use case diagram.

• **Task 6**: Define explicit scenarios on how your software intensive system interacts with its actors (and/or other components)
  • Fill in 4-5 use case templates for use cases defined in Task 5.
    *(one template per group member)*
Task 7: Requirements management

• Update traceability model and traceability management
  • Do not forget to maintain it during the whole workshop

• Do not forget that non-functional requirements, goals, use cases, and scenarios are requirements artefacts
  • Maintain their appropriate properties

• Workshop 2 solution is your requirements specification version 2.
  • Manage version control at the document and requirements artefact (i.e., requirements, goal models, use case diagram, and scenario) level